FIG. 1

POOL FOR SHARED NETWORK DOMAIN

OP_A (mnc41+mcc) OP_A (mnc41+mcc) OP_B (mnc42+mcc) OP_B (mnc42+mcc) OP_C (mnc43+mcc) OP_C (mnc43+mcc)

| SGSN1 | SGSN2 | SGSN3 | SGSN4 | SGSN5 | SGSN6 |

14

13

RNC

S3. RNC selects CN node based on selected operator

S4. Selected SGSN sends nri4

S2. UE checks operators behind SND, selects operator, and informs RNC 4 on selected operator

UE

USIM

12

11

S1. Broadcasting
Shared Network Domain, SND, Code
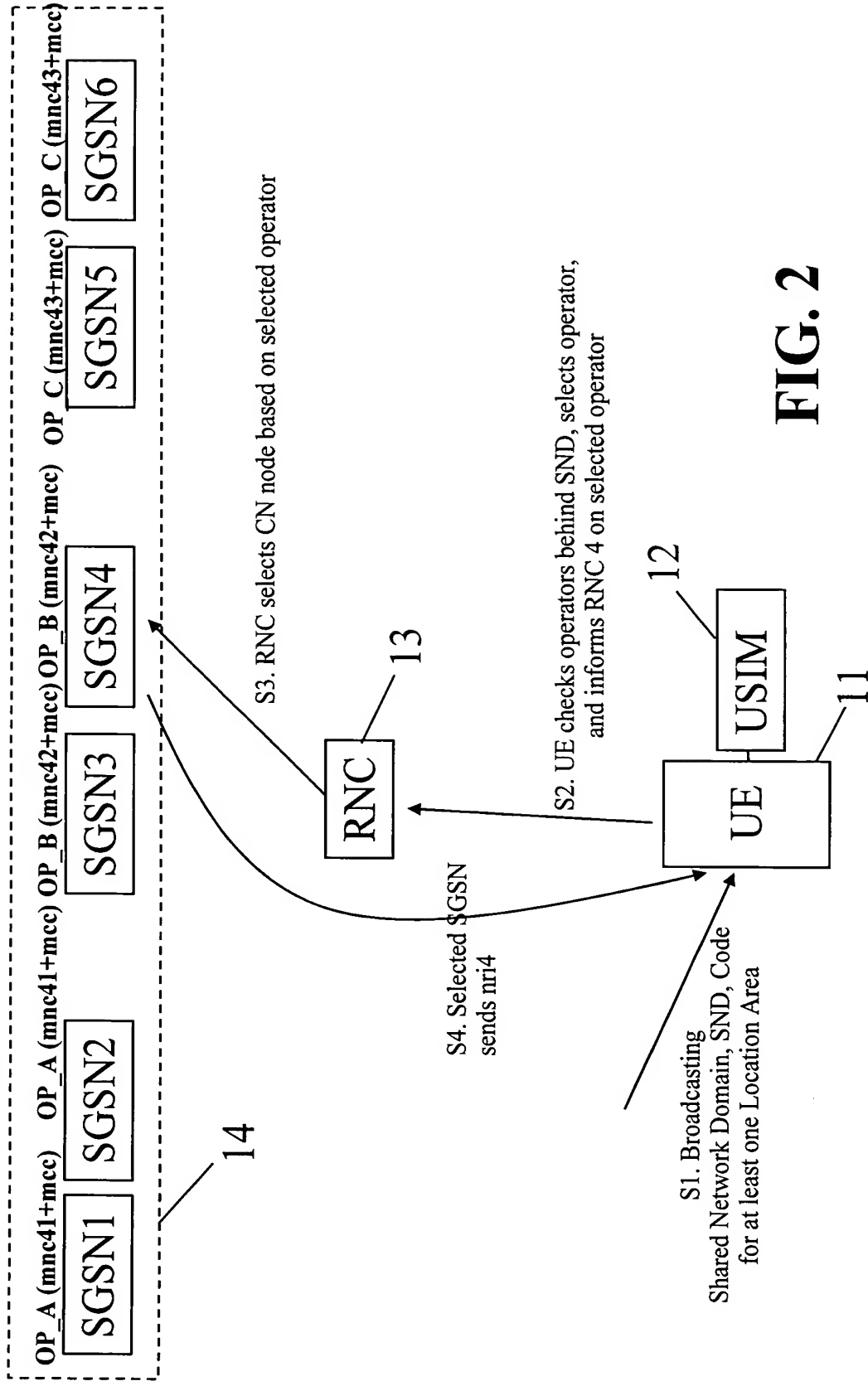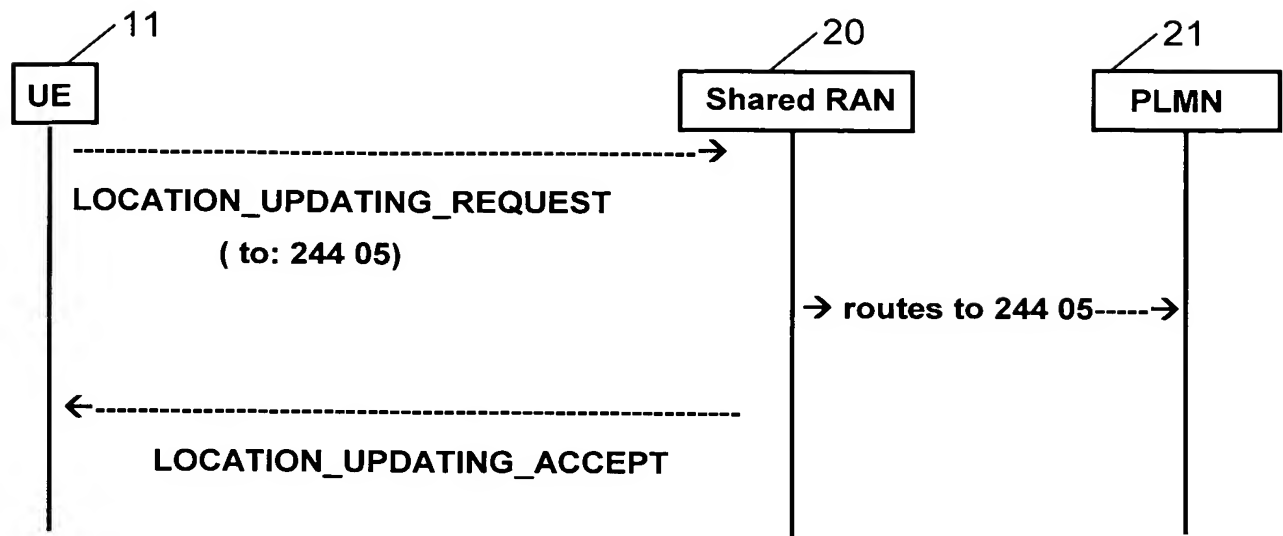for at least one Location Area

FIG. 2

FIG. 3

One PLMN selected behind Shared RAN

FIG. 4

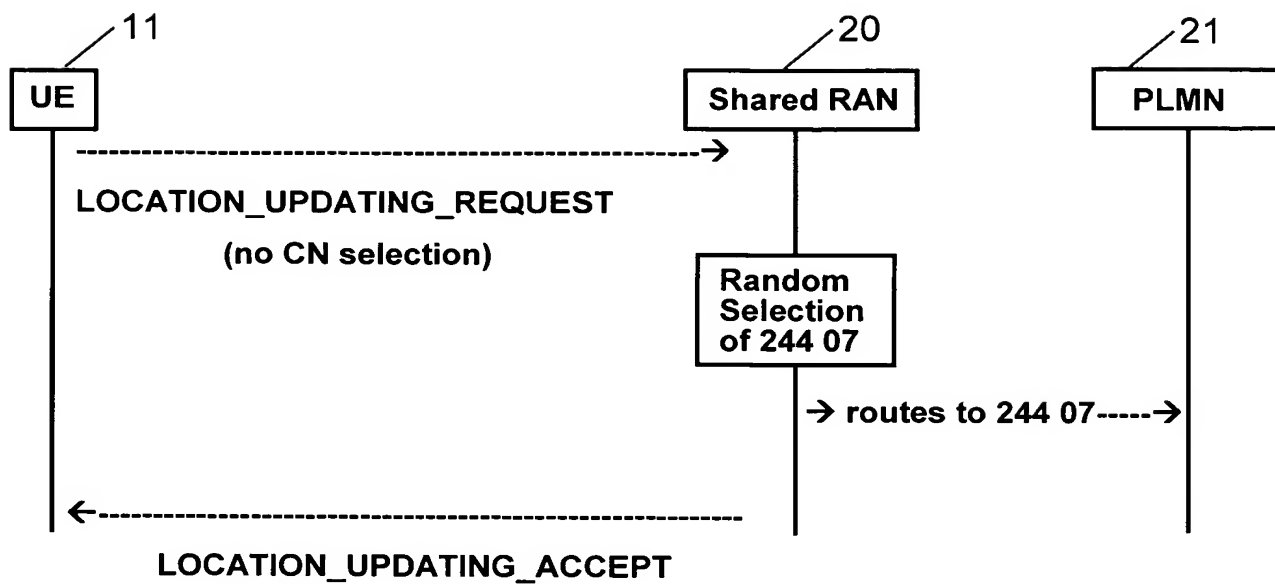PLMN selected is not part of shared RAN

11

UE

20

Shared RAN

21

PLMN

- →

LOCATION_UPDATING_REQUEST

(no CN selection)

Random
Selection
of 244 07

→ routes to 244 07 - - - - →

← -

LOCATION_UPDATING_ACCEPT

FIG. 5

No CN selection in request

11

UE

20

Shared RAN

21

PLMN

- →

LOCATION_UPDATING_REQUEST

(not to: 244 91)

Random
Selection
of 244 33

→ routes to 244 93 - - - - →

← -
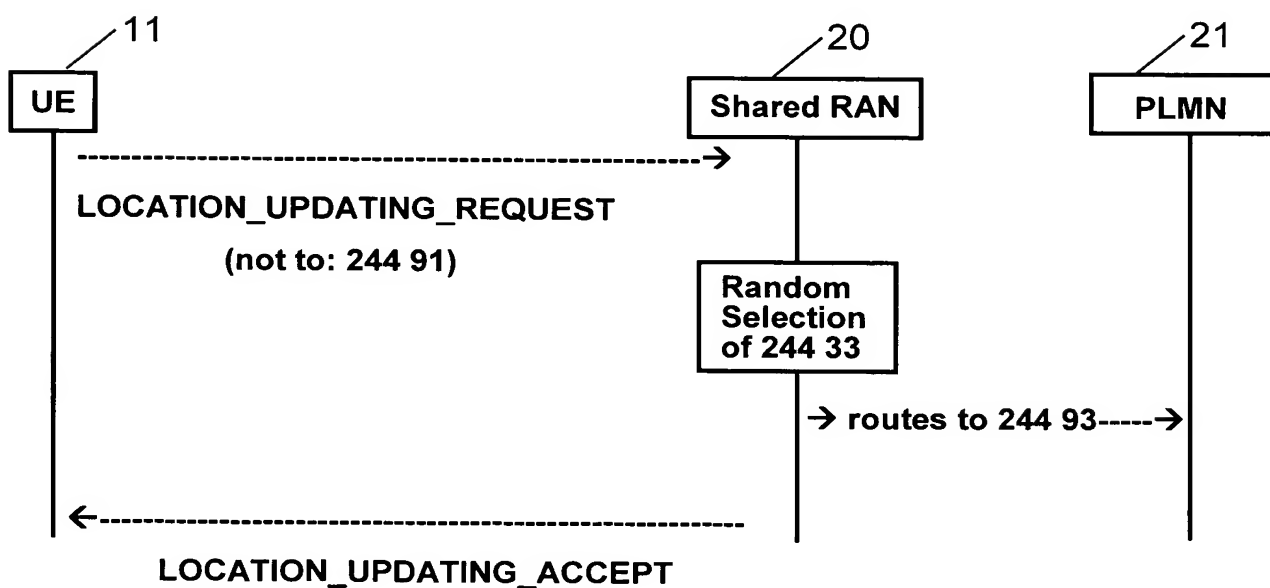
LOCATION_UPDATING_ACCEPT

FIG. 6

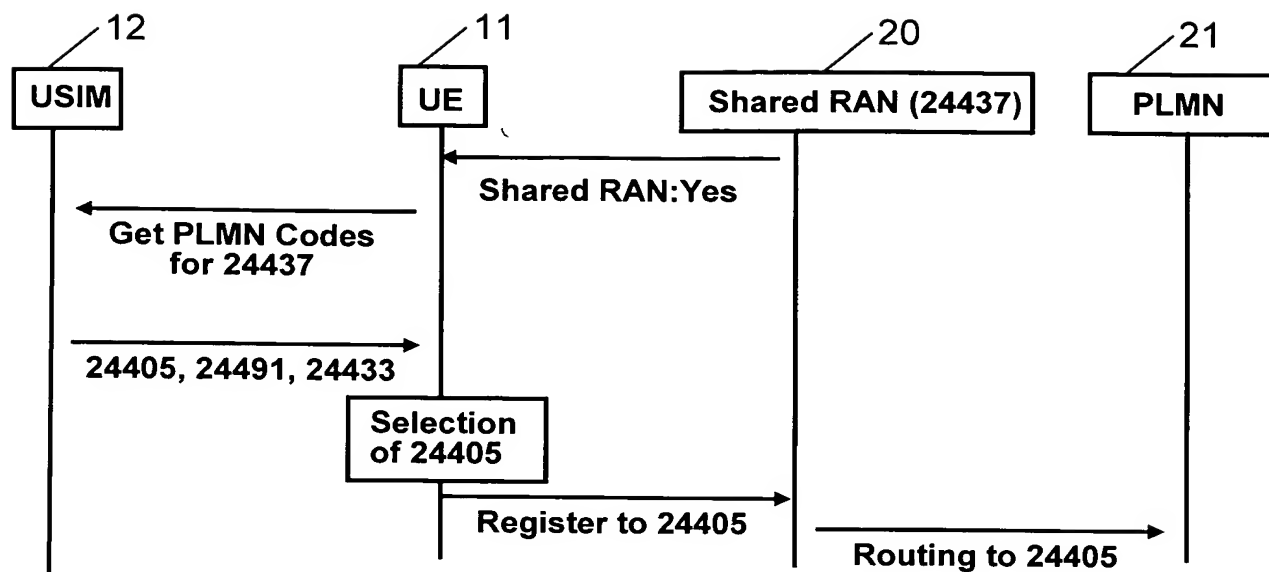One of the PLMNs is forbidden in Shared RAN

FIG. 7

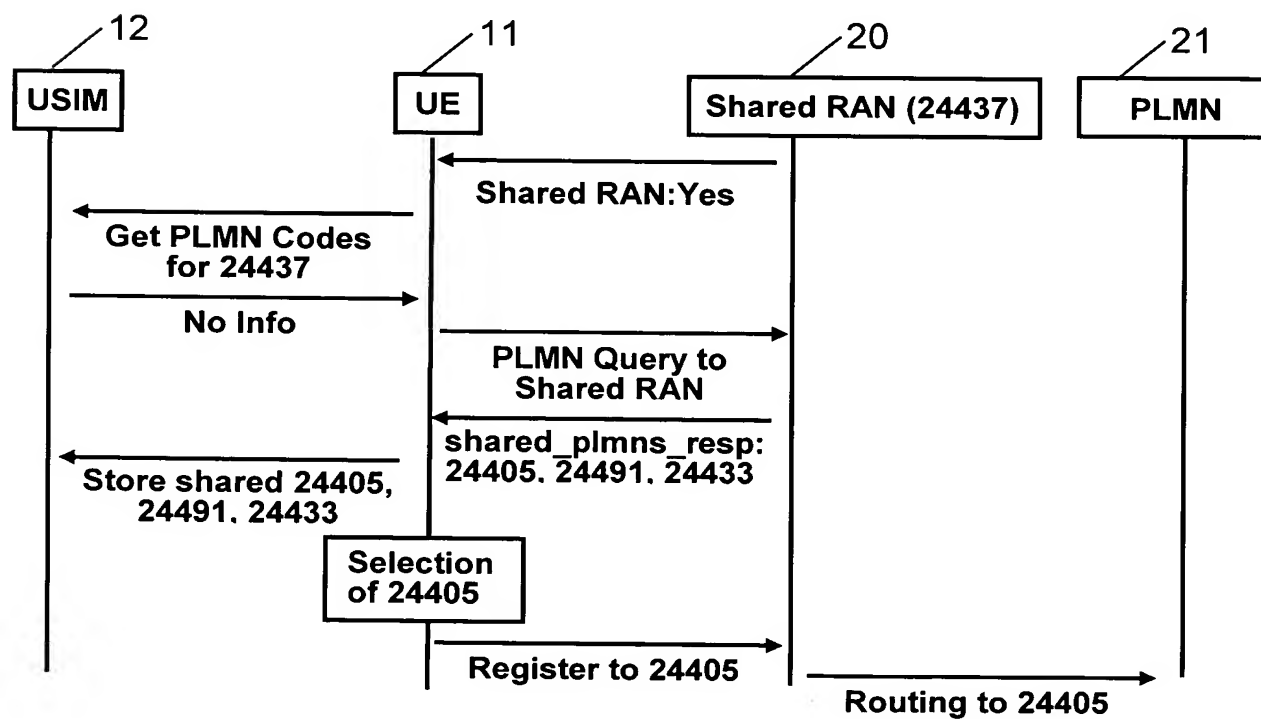Network selection: only shared RAN heard, contents known

FIG. 8

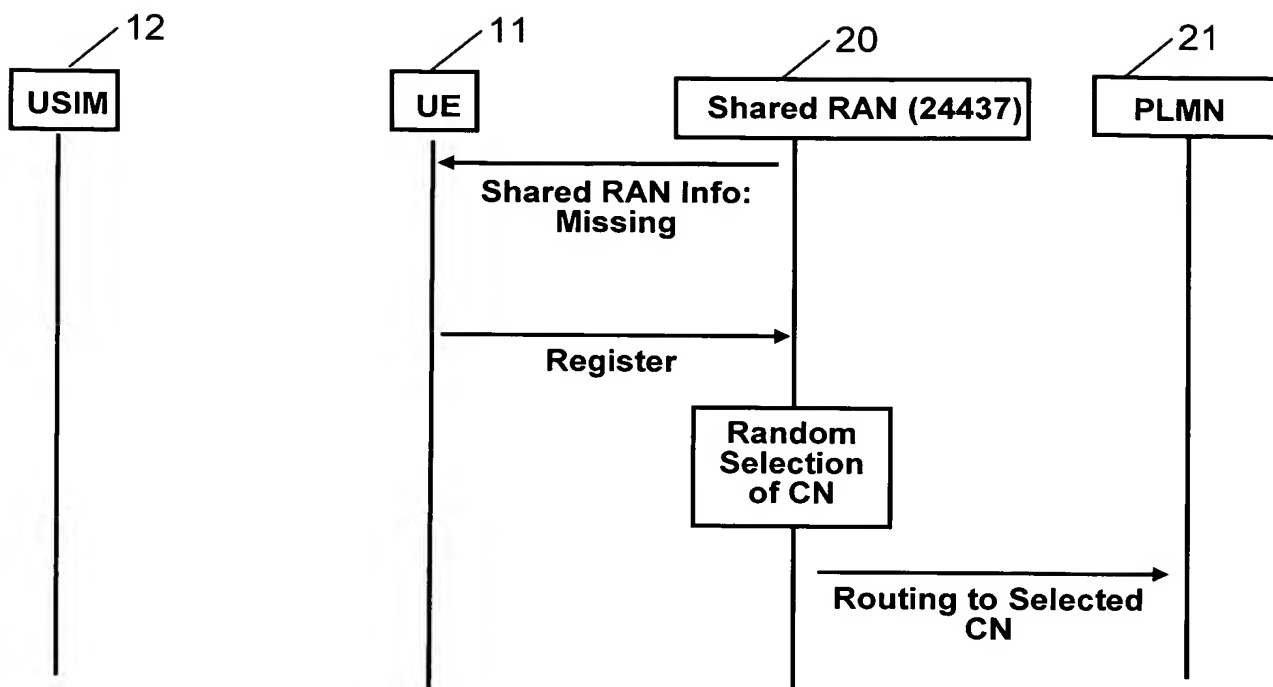Network selection: only shared RAN heard, contents not known

FIG. 9

Network selection: only shared RAN heard

but no indication "Shared RAN Info"